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## Recognition of handwritten dates on bank checks using HMM approach

[Morita, M.E.](#) [Letelier, E.](#) [El Yacoubi, A.](#) [Bortolozzi, F.](#) [Sabourin, R.](#)

Pontificia Univ. Catolica do Parana, Curitiba, Brazil;

*This paper appears in: Computer Graphics and Image Processing, 2000. Proceedings XIII Brazilian Symposium on*

Meeting Date: 10/17/2000 - 10/20/2000

Publication Date: 17-20 Oct. 2000

Location: Gramado Brazil

On page(s): 113 - 120

Reference Cited: 8

Number of Pages: xii+360

Inspec Accession Number: 6763183

### Abstract:

The article presents the first results of our system applied to the automatic recognition of handwritten dates on Brazilian bank **checks**. Considering the omni-writer context, we present in detail our recognition module dedicated to processing the month field. This module is based on the combination of holistic and analytical approaches with a fixed lexicon. Both approaches operate with a single explicit segmentation technique to provide a sequence for the purposed hidden Markov models of each recognizer. We show significant improvements when combining both modules to get a satisfactory recognition rate considering the small database **images** we work with. Finally, we present perspectives for future work.

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**without lexicon***Shridhar, M.; Kimura, F.;*

Systems, Man and Cybernetics, 1995. 'Intelligent Systems for the 21st Century

IEEE International Conference on , Volume: 3 , 22-25 Oct. 1995

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